

MSG 021A – FD03 MISSION SUMMARY

GOOD MORNING, ATLANTIS (AND WOOF TO TACO)! YOUR LONG, HARD WORK YESTERDAY THROUGH ALL THE CHECKOUTS HAS SET US UP BEAUTIFULLY FOR THE RENDEZVOUS WITH THE STATION TODAY. WE'RE ALL PSYCHED TO SEE YOU CATCH UP AND JOIN UP WITH THAT BRIGHT STAR IN THE SKY, AND GREET YOUR FELLOW SPACE TRAVELERS.

TODAY'S PLAN CLOSELY FOLLOWS THE PRE-FLIGHT PLAN WITH A FEW MINOR CHANGES. THERE ARE SOME WVS TROUBLESHOOTING STEPS LISTED IN ITEM 4 OF MSG 20 FLIGHT PLAN REVISION. WE'VE PLANNED THEM FOR 1/12:30 JUST PRIOR TO PHOTO/TV 20 SETUP. THERE ARE TWO CWC FILLS SCHEDULED, WITH THE FIRST ONE AT 1/12:00. SINCE THE ONE YESTERDAY TOOK LONGER TO FILL THAN EXPECTED, WE'RE PLANNING ON 67 MINUTES FOR EACH FILL TODAY (AND MAY INVESTIGATE REDUCED FILL RATE LATER IN THE FLIGHT).

WE JUMP RIGHT INTO RENDEZVOUS EARLY TODAY, SO GET MSGS 18 (BLOCK 22A INFO) AND 23A (PRELIMINARY PADS AND RNDZ PLOT) HANDY. ENJOY THE VIEW!

YOUR CURRENT ORBIT IS: 199 X 167 NM

NOTAMS:

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EDWARDS (EDW)	- LAKEBEDS WET/UNUSABLE
NORTHROP (NOR)	- LAKEBEDS DAMP/USABLE
FAIRFORD (FFA)	- CLOSED
BEJA (BEJ)	- TACAN DOWN
CHERRY POINT (NKT)	- 32L CLOSED
OCEANA (NTU)	- 32R CLOSED
AMBERLEY (AMB)	- DAY ONLY
RIO GALLEGOS (AWG)	- NOT USABLE
DARWIN (DDN)	- RNWY 11 THRESHOLD DISPLACED 810M WIP

NEXT 2 PLS OPPORTUNITIES:

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EDW22 ORB 33 – 2/01:25  
NOR23 ORB 48 – 3/00:18

END OF PAGE 1 OF 3, MSG 021A

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OMS TANK FAIL CAPABILITY:

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L OMS FAILS: NO

R OMS FAILS: NO

LEAKING OMS PRPLT BURN:

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L OMS LEAK: ALWAYS BURN RETROGRADE

R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%): (Post Ti)

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L OMS OX = 43.8

R OMS OX = 43.6

FU = 42.8

FU = 43.7

DELTA V AVAILABLE:

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OMS 422 FPS

ARCS (TOTAL ABOVE QTY1) 22 FPS

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TOTAL IN THE AFT 444 FPS

ARCS (TOTAL ABOVE QTY2) 51 FPS

FRCS (ABOVE QTY 1) 29 FPS

AFT QTY 1 82 %

AFT QTY 2 44 %

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FAILURE/IMPACT/WORK AROUND SUMMARY FOLLOWS:

<u>SYS #</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
EVA	EMU3 PRIMARY O2 TANK PRESSURE WAS LOW AT START OF EMU CHECKOUT.	NONE. NO LEAK IS INDICATED. MISCONFIGURED O2 ACTUATOR IS SUSPECTED. EMU3 IS GO FOR EVA.	NONE. EMU3 WAS BUTTONED UP AND PRIMARY O2 PRESSURE WAS STABLE OVER TEST PERIOD (P1=824, P2=829 OVER 5 HRS.)
APU/HYD	APU 3 EGT 1&2 ERRATIC (SEE SPEC 86 AND/OR F8 METER)	NONE	NONE
ECLS #1	CWC FILL #1 FILL RATE WAS APPROXIMATELY 25 LBS/HR LESS THAN NOMINAL.	FILL DURATION WILL BE 67 MINUTES RATHER THAN THE NOMINAL 52 MINUTES.	NONE

END OF PAGE 3 OF 3, MSG 021A